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IEE CNF	IEE Conference Proceeding
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1. Low-cost checkpointing and failure recovery in mobile computing systems

Prakash, R.; Singhal, M.
 Parallel and Distributed Systems, IEEE Transactions on
 Volume: 7 Issue: 10 Oct 1996
 Page(s): 1035-1048
 Digital Object Identifier 10.1109/71.539735

Summary: A mobile computing system consists of mobile and stationary nodes, connected to each other by a communication network. The presence of mobile nodes in the system places constraints on the permissible energy consumption and available communication bandwidth....

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) IEEE JNL
2. Frame-free video

Vasconcelos, N.; Lippman, A.
 Image Processing, 1996. Proceedings., International Conference on
 Volume: 3 16-19 Sep 1996
 Page(s): 375-378 vol.3
 Digital Object Identifier 10.1109/ICIP.1996.560509

Summary: Current digital video representations emphasize compression efficiency, lacking some of the flexibility required for interactive manipulation of digital bitstreams. We present a video representation which can encompass both space and time, providing

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF
3. Wait-free snapshots in real-time systems: algorithms and performance

Ermedahl, A.; Hansson, H.; Papatriantafyllou, M.; Tsigas, P.
 Real-Time Computing Systems and Applications, 1998. Proceedings. Fifth International Conference on
 27-29 Oct 1998
 Page(s): 257-266
 Digital Object Identifier 10.1109/RTCSA.1998.726426

Summary: Snapshot mechanisms are used to read a globally consistent set of variable values. Methods based on locking are penalized by blocking, which typically leads to difficulties in guaranteeing deadlines of high priority tasks. A method which combines th.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF
4. An application-transparent, platform-independent approach to rollback-recovery for mobile agent systems

Gendelman, E.; Bic, L.F.; Dillencourt, M.B.
 Distributed Computing Systems, 2000. Proceedings. 20th International Conference on
 2000
 Page(s): 564-571
 Digital Object Identifier 10.1109/ICDCS.2000.840971

Summary: This paper proposes a new approach to rollback-recovery for mobile agent systems, and describes its implementation in the MESSENGERS mobile agents system. The used checkpointing method allows the implementation of a space and time efficient, user-transparent.....

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 Prakash, R.; Singhal, M.;
 Parallel and Distributed Systems, IEEE Transactions on
 Volume 7, Issue 10, Oct. 1996 Page(s):1035 - 1048
 Digital Object Identifier 10.1109/71.539735
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1580 KB\)](#) IEEE JNL
- ☐ 2. **SNAP: efficient snapshots for back-in-time execution**
 Shrira, L.; Xu, H.;
 Data Engineering, 2005. ICDE 2005. Proceedings. 21st International Conference on
 5-8 April 2005 Page(s):434 - 445
 Digital Object Identifier 10.1109/ICDE.2005.133
[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE CNF
- ☐ 3. **DCT-based edge detector for snapshot images**
 Mon Wei Wu; Kuo, C.J.;
 Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on
 Volume 4, 26-29 May 2002 Page(s):IV-727 - IV-730 vol.4
 Digital Object Identifier 10.1109/ISCAS.2002.1010560
[AbstractPlus](#) | Full Text: [PDF\(361 KB\)](#) IEEE CNF
- ☐ 4. **Wait-free snapshots in real-time systems: algorithms and performance**
 Ermedahl, A.; Hansson, H.; Papatriantafyllou, M.; Tsigas, P.;
 Real-Time Computing Systems and Applications, 1998. Proceedings. Fifth International
 Conference on
 27-29 Oct. 1998 Page(s):257 - 266
 Digital Object Identifier 10.1109/RTCSA.1998.726426
[AbstractPlus](#) | Full Text: [PDF\(152 KB\)](#) IEEE CNF
- ☐ 5. **Implementation and Evaluation of a Scalable Application-Level Checkpoint-Recovery Scheme for MPI Programs**
 Schulz, M.; Bronevetsky, G.; Fernandes, R.; Marques, D.; Pingali, K.; Stodghill, P.;
 Supercomputing, 2004. Proceedings of the ACM/IEEE SC2004 Conference
 2004 Page(s):38 - 38
 Digital Object Identifier 10.1109/SC.2004.29
[AbstractPlus](#) | Full Text: [PDF\(192 KB\)](#) IEEE CNF
- ☐ 6. **Matrix conjugate gradients for the generation of high-resolution spectrograms**
 Zoltowski, M.; Santos, E.;
 Signals, Systems and Computers, 2003. Conference Record of the Thirty-Seventh Asilomar
 Conference on
 Volume 2, 9-12 Nov. 2003 Page(s):1843 - 1847 Vol.2

Digital Object Identifier 10.1109/ACSSC.2003.1292301

[AbstractPlus](#) | Full Text: [PDF\(378 KB\)](#) IEEE CNF

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Sitaraman, S.; Krishnamurthy, S.; Venkatesan, S.;
Information Technology: Coding and Computing, 2005. ITCC 2005. International Conference on
Volume 1, 4-6 April 2005 Page(s):715 - 720 Vol. 1
Digital Object Identifier 10.1109/ITCC.2005.99
[AbstractPlus](#) | Full Text: [PDF\(200 KB\)](#) IEEE CNF

- ☐ **8. Load management in future wideband DS-CDMA systems with non-uniform traffic distribution**
Hjelm, B.;
Personal, Indoor and Mobile Radio Communications, 2000. PIMRC 2000. The 11th IEEE
International Symposium on
Volume 2, 18-21 Sept. 2000 Page(s):777 - 781 vol.2
Digital Object Identifier 10.1109/PIMRC.2000.881528
[AbstractPlus](#) | Full Text: [PDF\(356 KB\)](#) IEEE CNF

- ☐ **9. Robust adaptive matched filtering using the FRACTA algorithm**
Gerlach, K.; Blunt, S.D.; Picciolo, M.L.;
Aerospace and Electronic Systems, IEEE Transactions on
Volume 40, Issue 3, July 2004 Page(s):929 - 945
Digital Object Identifier 10.1109/TAES.2004.1337465
[AbstractPlus](#) | Full Text: [PDF\(1242 KB\)](#) IEEE JNL

- ☐ **10. An application-transparent, platform-independent approach to rollback-recovery for mobile agent systems**
Gendelman, E.; Bic, L.F.; Dillencourt, M.B.;
Distributed Computing Systems, 2000. Proceedings. 20th International Conference on
10-13 April 2000 Page(s):564 - 571
Digital Object Identifier 10.1109/ICDCS.2000.840971
[AbstractPlus](#) | Full Text: [PDF\(96 KB\)](#) IEEE CNF

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Pendergrass, N.A.; Kowalczyk, R.E.; Dowd, J.P.; Laoulache, R.N.; Nelles, W.; Golen, J.A.;
Fowler, E.;
Frontiers in Education Conference, 1999. FIE '99. 29th Annual
Volume 3, 10-13 Nov. 1999 Page(s):13C2/6 - 13C211 vol.3
Digital Object Identifier 10.1109/FIE.1999.840420
[AbstractPlus](#) | Full Text: [PDF\(280 KB\)](#) IEEE CNF

- ☐ **12. RADARSAT Antarctica Mapping System: system overview-an update**
Norikane, L.; Wilson, B.; Jezek, K.;
Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998 IEEE
International
Volume 1, 6-10 July 1998 Page(s):265 - 267 vol.1
Digital Object Identifier 10.1109/IGARSS.1998.702873
[AbstractPlus](#) | Full Text: [PDF\(304 KB\)](#) IEEE CNF

- ☐ **13. Frame-free video**
Vasconcelos, N.; Lippman, A.;
Image Processing, 1996. Proceedings., International Conference on
Volume 3, 16-19 Sept. 1996 Page(s):375 - 378 vol.3
Digital Object Identifier 10.1109/ICIP.1996.560509
[AbstractPlus](#) | Full Text: [PDF\(900 KB\)](#) IEEE CNF

- ☐ **14. RADARSAT Antarctica Mapping System: system overview**
Norikane, L.; Wilson, B.; Jezek, K.;
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing for a
Sustainable Future.', International
Volume 3, 27-31 May 1996 Page(s):1772 - 1774 vol.3

[AbstractPlus](#) | Full Text: [PDF\(224 KB\)](#) IEEE CNF

- ☐ **15. Time-Variant Channel Estimation Using Discrete Prolate Spheroidal Sequences**
Zemen, T.; Mecklenbrauker, C.F.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on]
Volume 53, Issue 9, Sept. 2005 Page(s):3597 - 3607
Digital Object Identifier 10.1109/TSP.2005.853104
[AbstractPlus](#) | Full Text: [PDF\(520 KB\)](#) IEEE JNL
- ☐ **16. Rectangular Pisarenko method applied to source localization**
Fuchs, J.-J.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on]
Volume 44, Issue 10, Oct. 1996 Page(s):2377 - 2383
Digital Object Identifier 10.1109/78.539022
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(648 KB\)](#) IEEE JNL
- ☐ **17. Optimizing Checkpoint Sizes in the C3 System**
Marques, D.; Bronevetsky, G.; Fernandes, R.; Pingali, K.; Stodghil, P.;
Parallel and Distributed Processing Symposium, 2005. Proceedings. 19th IEEE International 04-08 April 2005 Page(s):226a - 226a
Digital Object Identifier 10.1109/IPDPS.2005.316
[AbstractPlus](#) | Full Text: [PDF\(160 KB\)](#) IEEE CNF
- ☐ **18. Retrieving event-based semantics from images**
Hornsby, K.;
Multimedia Software Engineering, 2004. Proceedings. IEEE Sixth International Symposium on 13-15 Dec. 2004 Page(s):529 - 536
Digital Object Identifier 10.1109/MMSE.2004.68
[AbstractPlus](#) | Full Text: [PDF\(280 KB\)](#) IEEE CNF
- ☐ **19. Track-based disk logging**
Tzi-cker Chiueh; Lan Huang;
Dependable Systems and Networks, 2002. Proceedings. International Conference on 23-26 June 2002 Page(s):429 - 438
Digital Object Identifier 10.1109/DSN.2002.1028928
[AbstractPlus](#) | Full Text: [PDF\(345 KB\)](#) IEEE CNF



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1 [Migration: Optimizing the migration of virtual computers](#)

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum

 December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue S1

Full text available: pdf(1.68 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c ...

2 [Scaling irregular parallel codes with minimal programming effort](#)

Dimitrios S. Nikolopoulos, Constantine D. Polychronopoulos, Eduard Ayguadé

 November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(153.05 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The long foreseen goal of parallel programming models is to scale parallel code without significant programming effort. Irregular parallel applications are a particularly challenging application domain for parallel programming models, since they require domain specific data distribution and load balancing algorithms. From a performance perspective, shared-memory models still fall short of scaling as well as message-passing models in irregular applications, although they require less coding effort ...

3 [PACT 2001 workshops: Exploiting memory affinity in OpenMP through schedule reuse](#)

D. S. Nikolopoulos, E. Artiga, E. Ayguadé, J. Labarta

 December 2001 **ACM SIGARCH Computer Architecture News**, Volume 29 Issue 5

Full text available: pdf(714.85 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we explore the idea of reusing loop schedules to improve the scalability of numerical codes in shared-memory architectures with non-uniform memory access. The main objective is to implicitly construct affinity links between threads and data accesses and reuse them as much as possible along the execution of the program. These links are created through the definition and reuse of iteration schedules which are either defined statically by the user or created dynamically at run time. T ...


Keywords: OpenMP, computation affinity, data, page placement, shared-memory programming models



4 An analytical cache model

A. Agarwal, J. Hennessy, M. Horowitz

May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2

Full text available:  [pdf\(2.51 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Trace-driven simulation and hardware measurement are the techniques most often used to obtain accurate performance figures for caches. The former requires a large amount of simulation time to evaluate each cache configuration while the latter is restricted to measurements of existing caches. An analytical cache model that uses parameters extracted from address traces of programs can efficiently provide estimates of cache performance and show the effects of varying cache parameters. By repre ...



5 Cache performance of operating system and multiprogramming workloads

Anant Agarwal, John Hennessy, Mark Horowitz

November 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 4

Full text available:  [pdf\(3.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Large caches are necessary in current high-performance computer systems to provide the required high memory bandwidth. Because a small decrease in cache performance can result in significant system performance degradation, accurately characterizing the performance of large caches is important. Although measurements on actual systems have shown that operating systems and multiprogramming can affect cache performance, previous studies have not focused on these effects. We have developed a pro ...

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1 [ITP: an image transport protocol for the internet](#)



Suchitra Raman, Hari Balakrishnan, Murari Srinivasan

June 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 3Full text available: [pdf\(321.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Images account for a significant and growing fraction of Web downloads. The traditional approach to transporting images uses TCP, which provides a generic reliable in-order bytestream abstraction, but which is overly restrictive for image data. We analyze the progression of image quality at the receiver with time, and show that the in-order delivery abstraction provided by a TCP-based approach prevents the receiver application from processing and rendering portions of an image when they actually ...

Keywords: computer networks, congestion control, internetworking, network adaptation, selective reliability, transport protocols

2 [Status report of the graphic standards planning committee](#)



Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

3 [Hardware independent programming for a computer graphics course](#)



Michael K Mahoney

December 1986 **ACM SIGCSE Bulletin**, Volume 18 Issue 4Full text available: [pdf\(361.18 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

4 [Towards efficient fine-grain software pipelining](#)



Guang R. Gao, Herbert H. J. Hum, Yue-Bong Wong

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing**, Volume 18 Issue 3Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dataflow software pipelining was proposed as a means of structuring fine-grain parallelism and has been studied mostly under an idealized dataflow architecture model with infinite resources[9]. In this paper, we investigate the effects of software pipelining under realistic architecture models with finite resources. Our target architecture is the McGill Dataflow Architecture which employs conventional pipelined techniques to achieve fast instruction executi ...

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C. Gray, D. Cheriton

November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth
ACM symposium on Operating systems principles**, Volume 23 Issue 5Full text available: [pdf\(1.13 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Caching introduces the overhead and complexity of ensuring consistency, reducing some of its performance benefits. In a distributed system, caching must deal with the additional complications of communication and host failures. Leases are proposed as a time-based mechanism that provides efficient consistent access to cached data in distributed systems. Non-Byzantine failures affect performance, not correctness, with their effect minimized by short leases. An anal ...

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1 [A high performance multi-structured file system design](#)



Keith Muller, Joseph Pasquale

 September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25 Issue 5

Full text available: pdf(1.40 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

File system I/O is increasingly becoming a performance bottleneck in large distributed computer systems. This is due to the increased file I/O demands of new applications, the inability of any single storage structure to respond to these demands, and the slow decline of, disk access times (latency and seek) relative to the rapid increase in CPU speeds, memory size, and network bandwidth. We present a *multi-structured file system* designed for high bandwidth I/O and fast response. Our design ...

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